

12 Challenging Games to Play on Your Home Computer.
All in Basic with program listing and sample run.

Edited by David H. Ahl.



BIG COMPUTER GAMES

Edited by David H. Ahl

Morris Plains, New Jersey

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ISBN 0-916681-40-2 Creative Computing Press 39 East Hanover Avettic Morris Plants, New Jersey 07930 USA

Big Computer Games
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extraordenage who, to this day, claum he would have

About the Author

David H. AN has a BEE from Cornell University, MBA from Curserve Mellon Danversey and has done further mark an educational psychology of the University of Prinducth

He served in the Army Security Agency, was a consultant with Management Science Associates and a service research fellow with Educational Systems Research Insurant

In early 1970, he joined Digital Equipment Corporation: As education wouldn't like manager, he formulated the concept of an intertional correstor system consistent of hardware, software and

courseware and helped guide DEC rato a leading position in the edn centron market Mr. All intend ATAT in 1974 at education marketor menager

the exit later to become American Bell. Concurrent with this more he started Creedye Comparing so a hobby at late 1974. It was the first

personal competing ranguage in the world As Course Consumer year, Mr. Abi Job AT&T in 1978 to device fell true to it. Create Compagne message today is Nearber 1 in software and probablines

Mr. Ahl is the nutbor or editor of 20 books and over 200 amoles.

about the use of computers. He is a frequent leaturer and workshop leader at advertisinal and newferment conferences.

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Ster Merchant Estamata traduce presidence

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May To Work As Adventure

Advestures in Videoland. Rollemontee A computer/sideoding adventure

Presidential Compaign Sussistion of the sens-mouth pre-election period

- Tips for Playing Adventure Comes You son can be a master explorer

Preface

It seems thay my games books come on it about former than the service of fluid Computer Consert intervals. The first service of fluid Computer Consert was published in July 1973. After fluid Computer Consert fluid in the first 1974 And fluid rear are services for pages form with Aft Computer Consert So what is sugarfaces about that? Not rough the fill, except that if a green you as heaternal perspective or computer games, specifically ones written in Base. Years not note attempt that we have the service of the fill o

enflexing of course, the limited memory available in conti computers. Indeed, my first lease lander grogium was verifien to fit in a computer with 4K of marrly 3 SK. Thus the program was less than 500 bytes long. In the first book I collect, dous Computer Gavor, navily social of the 162 programs were less than 40 lone long. Some of them were oughly sixteesting progenies, although there when I marth from the

Gawes, early one-half of the filt programs were less than 60 lines in g. Sman of them were ruplys streets mg programs, although there was all much room for the rules, error checking, or user-frendly features. On the other hand your ago people who had occess to large mechanicy systems were writing longchiceness programs with all control calculated features. Unfortunately, hime worm's of much has to surely nanocomputer cowers who tall backy to be able to affined KC, or results. Times have changed. Today, mensiry in change Winnersham and the side and the side of the component with the side. He had an adverted to so that of the side of the side of the side of the side of the programs in this book ware originally developed on large transferancy greaters. Body they will not not the average memorcompace: Admishly, most of them of any program to have the side of the

So, as a result of the relendess march of sectoralogy, today we are able to may programs on a small compater that ten years ago required a \$100,000 typtom Furthermore, many of the programs being weiton today on small compaters are neces dichomot than those wetter on linear machines.

those wetters on larger unschained. I with I should say that these solvances in technical cay that the solvances in technical cay. Inside I and I and

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Eribbage

Various in (BM Black for a 170-154. It appears or the form in Chestier Companies, May (1921. For this beek, it was converted to Microsoft Room by Steve W Grown.

If your between 10 for a collaborary function work branch

the frustration of wasting to play but not being able to find an opponent. Well, never again. Orbibage will always be withing to notept the challenge. If you don't happen to be a orbibage player, this program provides a good way to Joans the genne.

Reles of Cribbago

Criticings is 160-ophycer pane. A regular deck of curds in used The methi are mod cheefly as numbers, this austs have practically no role in the pane. Eash phyce receives six ends on the deal From his hand, each player selects 160 certal for descend those fore cards no placed flow down not and known as the his extent hand which belongs to the feedler. After the role into disons, the modesaler cuts the

rest of the pack and the dealer term up the top card of the lower parties. This card is the samer or up card if it is a pack, the dealer scores? peach. This operation is done automatically by the program. In it is normal play of the parse, a emblage board is used to keep track of the sores, a finishion performed. by the computer in this game. The game is non-when one player has traversed twins around the board (121 or more persis).

The acondesier becaus by playing may card, face

the consense segme of people any cons lace which seed the ten here a permit saids of 10. The deliber here plays a card and anisomost the said of the two cands thus for played. Filey consumes alternately, the new stem being amounted each time, and long player is unable to play we whoch extrapped the sould over 31. He must then say "go" and has exposure page for necessify for go The physer who called the go must lead appear for a new name of Pays. The course begins for a new name of Pays.

After go at called, the other player most play marked for the case of so without exceeding 31. Thus, the state player may play two or three times in succession. For making exactly 31, the player scores 2, for a go at less than 33, he scores 1. Playing the last card of the eight in play comin I pornt, or 2 fit makes

Sepring During Play

In addition to the points for go's and playing the last card, other points are awarded as follows: Fifteen For making the sam 15, score 2.

Printer For playing a card of the same rank in pant played by your opposent (i.e., king king, or i, i), score 2. Playing the third card of a reek scores 6, and the fourth scores 12. Awar For relaying a card in suppoper with two or

Ram: For playing a card in supposes with two or more just played accre the member of cards in the run for suppose;) The cards need not be played in separaisal order to score for a run, for example if the cards played on 5.7.6, the last player socres 3 for the run

10 00 0, 7, 1

Scoring A Hand

In orbhoge, sorring a hand is known as abouting
The hands are shown in order mondealer, dataler, and
The starter for my card in treated as a fifth
and belonging to each of those there hands. The com-

burshors that score are as follows: #\$\text{Ellers For each combension of cases that total \$5.50000 2. Thus, a hand with \$6, \$7, \$7, and \$6 has three combensions of \$5.9 and \$6, \$2 with one \$7, and \$5

with the other 7
Midiples For a pair, sourc 2, for three of a kind, sourc 6 for four of a kind, soon 12
Root For such configuration that makes a run of

three or more, soon the number of cards at the run. In the hand, 9, 8, 7, 7, 6, there are 8 points for two numof four, song out 7 in each run. Think For four parts in the hand (nucleating the

up ened) of the same and, score 4, or 5 if the up eard is also the same sust. For end and up card of the same

If a player overhooks a score to which he is enntied, either in playing or showing, his opponent may call "Maggird" and tale the occue hamself. Since the competer heeps playing scores automateally and always counts his own hand correctly the only one that Maggins is need in this game in against you when you score your hand or the cold hand.

Specifics of the Computer Versein

To the question, "Cni for deal?" you should extent a matcher between 1 and 52 which is where the shuf-fled deals will be out. The needs in your hand are nam-beged 1 to 6, any entitles representing conds should use these nearborn, not the valuabil of the card III you mail.

may go, simply type it instead of a card mamber on your form.

The comparier will shaffle, deal, generate the starter (up card), keep track of the running scores, and erold all points eitneed during play. It will not let you record 31, but it downed to be to be you could have

score your hand mid the computer will call Mitagous without mercy if you have counted incorrectly. The program man a very sample plussing strategy of keeping the cards that yield the most points or playture the card which will score the most points. There



Cribbage

570 CM.JI-YILA,JI

TSO MALMY CHICKLALL

THO POR L-1 TO REFOR 3-1 TO A
TWO MILLULATIONS TO A
TWO MEET JAMEST L

510 REN 44 REMEMBER THE UPGARE 490 SOPUR 4320

\$10 DM X1 5070 500,870 520 PRINT 50 CLUICLENK LOSS 330 PRINT PE SHIPER SO PRINT . CALLEGE STATE OF CHICKNESS WASHINGTON TO PRINT LEAFLY "Enter & masser from & to Scorper so Lr HT/800 DR HT/0 THEN TO 040 S1461+F P50 LF 643-421 TMEN 1420 H40 S0TD 1370 TO FOR X+5 TO NTI FUNERODILLI NEXT I 100 000 000, 41, C420, 11021, 815, 81 100 000 000, 41, C420, 11021, 815, 81 110 000 010, 41, 710, 71, 71, 71, 781, 781 SEC STEP LOS O 120 DEM VILE, FL, DILL, et, RIE, BL, J 1521 120 DEM VILE, FL, DILL, et, RIE, BL, J 1521 130 FOR K-1 TO 151FOR Yes TO T 200 DSR Lat 70 900 FGR Let TO a 910 IF 1-13 THEN 970 920 IF 1-14 THEN 976 ISO FOR X=1 TO INITION Y=1 TO T INO READ WIE, YILLMENT Y-MEXT E 150 FOR E=1 TO ILLETON Y=1 TO A 1'30 FOR Jel TO 6 LEO PEAR GIR, VILNERT YUNGET & LTD FOR NHI TO 4+FOR YOU TO M 740 MBC, 31-711, 21 INC MEAD MIS, YIMMET YOURT & 150 PER X-1 TO SINGAD BIXINGSY X 200 FER X-1 TO SINGAD DALKINGSY X 170 NE #1 THE HET - 41 MET 10 FOR 1+1 TO 13 220 MEND C4 LOSS ROWLE 45750 250 CHILL-LEFTS MC#, 41 +* or Familia ... 1000 PRINT "Most easy solnes "[250 CHILLMAN # 550 cts* do Passon 240 CHILLEST ELETTE ELT, 41 * of Dissonds * 250 CHILLEST ELETTE ELT, 41 * of Passon 260 CHILLEST ELETTE ELT, 41 * of Clubs * 1030 Ber-Pil 1040 IF DWG THEN LOTO. 270 MENT L tong Print "Not with that hard" 250 PRINTEPRINT 270 Step182-0 NOW MAN BY BREATHE DECK & CUT FOR DEAL LONG OF SECTION 1 INC. 310 50010 4850 129 SEEDS 4220 339 HEN 44 SUFFLE AND DEAL 140 60kuw 5850 1120 REINT Meggins for "IDI"course." 350 65636 4250 360 657 46 FURD BENT & CARRO LLTO PRINT 1140 EF 81>+121 THEN 1421 370 838 m 7483 1 and CM #1 GOTD 1 and, 700, 1370 LIAG FOR KHI TO 4 LIFO CHYMP, KI 400 12-VIB9, 61 1170 Mic. Jienti. Jr 410 PRINT 120 PRINT TYPE STREETS*1 630 LAPUT 13, 18 1210 MEET 2 440 LF 1301 THEN \$40 1220 FRINT "My cards are" 660 PRINT "LEVALLE LINEUR "+ COTO 620. toen FOR KHI TO A 470 EF ENTISSICHS THEN 460 480 EF 144ES THEN 460 1250 LHEEK, ET 500 LF INCA THEN SAN 1270 MEYT V 1270 MEST K STO IF INCOMPLETE THEM THE 520 MPH AN COLD 1700 50608 4530 530 FOR Jes To 4 1210 STARTAL 540 Ctt, 21-Mills, 21 1320 IF 912421 THON 1820 1320 PRINT

100 MID-41-75

ALO REN SE PLAY OF THE MAR 1390 FRIST 'You have '1921 "soints." A20 SCELE ITIO 1490 FEST also IF two THEN ATO 1410 SCITO 330 440 PRINT "YOU BEGIN First " 150 X141 1000 PROST "I NIO"(SELTES") EX 640 SQT0 890 1410 PRINT 570 PRINT "I score first " 1450 BYOR 480 X1+2 170 NOTE LINE 1870 FRINT YOU MEN'SHIP DO" | DE 700 FRINT "The Cris Service are" 1490 STO The PER INL TO 4

EDGO FIEN #4 ETER MEN OF PLAY OF THE HAND 1400 SER ST 1530 YEAR MENT CHO DENCY FOR 1540 IF PHO THEM LYDO 1550 OF YEAR THEN 1560 1560 OF HEAT THEN 1560

1340 PRINT PU pelote"

LINE ON AL OUTD TOO, N'TO

1780 PRINT "F have [SI] "mointe."

Erribbage

1770 0010 1740 2760 IF 641 THEN 2470 1500 PRINT TYPE STRY "1 THE PARTY CO 2380 PRINT "I get I point for the last card." IAGO IF CHILDS ON CHIES INCM 1940 LATO FOR CHIE TO A LATO IF CHIESTON THEN 1440 2400 ENDISTA LASO MEET IN 2420 IF \$57121 YHRN 1420 2470 BOYD 1550 DIAD IF FECT THIN 2550 1450 GOED 1590 1840 IF GO-13 THEN LESS IATO IF CAPIA THEN INCO 0450 PRINT TITL sive you I egipt for last card." 1680 IF Y2-0 THEN 1720 14/00 FOR 201 TO VO 1700 LF | LIONAL-ES THEN 1700 TABLE PROPERTY. DATE OF SECURE THE CALL 1710 HENT 1720 IF 29+Y404,21>31 THEN 1920 2500 C+0189+016+0 Date the 2529 0070 1940 2530 IF Set THEN 1700 1750 11101751 sca 1760 CHE+1 1770 J (ELW) (E6,4) OWEN BY 2540 SOTO 1250 1700 DOMEN 5010 1700 PELHT "NEW PLAYED THE "[CRIYCO, 111 1800 PRINT "NEW -"| IPRINT URING"AR [DT] 1800 PRINT ", PRINTE "TIPRINT URING"AR"|P 2570 1F F=0 THEN 2670 2500 PHINT 2570 IF FAI THEN 2640 Zado PAINT 'S get 1 point for the last card." 2620 IF \$1>121 THEN 1429 1840 IF 823121 DelN 1460 1850 IF 890331 DelN 1460 Theo Payer Tree set 1 report for the lank sard." INTO SOTO 1940 INSO PRINT "You discarded that care." DAME OF SECURIZI THEN DAME 970 0070 1070 1900 PFERT "Rives"v played" 1920 PWINT That totals abon then 31" 2700 MD+FD+1 2710 IF D()1 THDN 2844 2730 FOR J9+1 TO 4 1740 LF MOUNT THEN 2110 2710 19-9187,391 1950 IF VS-4 THEN 2570 2740 REN ** BON'T PLAY & S PLAST 1940 OF COCKET MO COCKED- THEN 1550 2750 1F H119, 21-5 THEN 2910 2790 1FH119, 21-5 THEN 2910 1780 LF FWE THEN 2070 1990 PSCHT "You get man point for the last rank!" 2770 JIE1-0119,40 2000 PRINT 2000 92*52*5 2790 BT+ML19,21 2020 IF 921-121 THEN SAME

2900 NOTE 2910 2910 HEXT J9 2820 L-9187.11 2050 FRINT "I gat one point for the last card; " 2020 DOTO 2760 2840 FOR J9-1 TO KY 28/50 15-16/51/201 2860 LF S LIVE OF THEN SHOO 2070 MLKT 37 2000 LIMB+201+15

3040 FMG 5020 LF D+1 THEM 5300

2060 IF 594>18 THEN 3110 home Event 7110 IF 890331 THEN 3140

2350 1F C+()*30" AND C+()*20" THEN 2440

2010 PRINT "By card to the "(COSM(17, 11) 2720 FROM "Bue " LIFEONT COLORS" 4 1891 2920 FROM ", Points " LIFEONT COLORS SEE " FT 2170 IF 19wil THEM 2310 2180 IF 19-12 THEM 2310 2900 1F 01:421 THEN 1420 2970 1F 05:431 THEN 2000 2980 F-01C-015989 2100 IF MS-0 1969 2230 2100 IF MS-0 1969 2230 2000 FEB 3001 70 MS 2210 IF 17+[120+27] THEN 2310 2000 Th Ces. 00, On Cam NO. LHEM Total 2220 IETT JT 2220 1F HT-H117, 21331 THEN 2310 1020 HEN 46 2000 REN 44 CHECK FOR 15 CR 31 C 3040 REM 19 2, 3, 4 OF A KIND PLANS. 3040 F#G

2080 LF 363=121 THEN 1420 2080 F=01C=0187=0

2280 LE COPY THEN PROF

2340 IF N9CHO THEN 2410

2280 LCI VION

Cribbage 3130 UY+2107 C-2)2 THEN UY+C-2 3140 FOR D-C TO UY STRF -1 2700 MIN 44 CHECK FOR BELVIOR 3160 FDR 1-E 10 DV STRF -, 3150 DF 211143211-11 THEN 3230 3160 DM C-1+1 5070 3170, 3190, 3210 2150 REW AS CHECK FOR JACKS 2189 0070 4060 3210 Pulled SUZZO MERT I 3230 FEH AA BLMC 3240 IF C+2 THEN 3300 4020 S078 4080 4020 SETS 4080 4030 PEN 44 RENDONLY DISCHE A HAND SP 4040 PEN MK PEACH THIS POINT 2250 *7+0 2270 SSELIE 3319 3290 MENT I 4950 FOR MO-I TO ACTUBRATE LISTADILISATING V. MO 4100 PT+1 (81) 2250 R-P+RS 4000 SETURN 4000 SEM 44 MEST PRING MILL BE THAT 4010 PEN MICCH HAS MEST OF CARD CT 750 POR 241 TO D 2220 HEXT & 4100 FOR 141 TO 15 3330 MLXT & 3350 FDR K+L TO I 3340 OF JOHNSON JULE THEN 3400 eleo Figs 1+1 TD J #150 PGW R-1 TO # \$160 LAVEL CL. KD 4170 IF MEL, 41 CHCF THEN 4240 3400 MEXT L 2410 MEST H 4190 NEXT K 3410 MEST K 1420 FOR KHI TO 1-2 4200 DE JIII DES THEM PROJIES 1630 IN JIK+101<1JIK+111-1 THEN 3640 4210 HEXT I 4220 Wart 4076 FOR IN: 70 J 4240 IP 2111 COPP THEN 4270 3470 FEN 44 3460 FEN 44 FIND THE BEST 4 CHIEP HIND TOTAL SPECIAL 4049 NT+1111 6279 AEXT 1 3410 PET 44 ADRO TO MICH THEN 4200 3539 FOR 2941 TO 15 3820 11-V117, 11 4760 DM I 0078 3870, 3916, 3950, 3960, 4030 2540 [3-V[17,3] 4320 REN 44 GENERATE THE UN DANS 3350 14*VII9,41 5540 FOR Jet TO 4 4340 PENTERSON | 111+14 3570 WIL, James I., 21 3580 WIZ, JI-MIES, 31 4350 PRINT 4340 FRINT "The ar card le the "ICHODIN 114 3580 Mt2, 31 Ht [[3, 3] 4390 FSE 1+1 TO 4 4310 MIS, II-GOU, 11 4100 NEXT : 3+30 PER 44 EVALUATE THE HAND AND TRONIS, 41 4920 IP WIS.41C>11 THEN ANYO 2400 E400 #530 6650 IF PHO THEN 4450 Sedo VIPS, 71er 4440 PRINT "2 prints to an " 4450 51-51+2 3480 NEXT IN 4450 S1=91+X 6460 SF WI>=121 THEN 1426 3610 PEN 44 PIND ALL HANDS HETH MAS 4470 PETUNE 3700 REM BOOME 3970 4450 FRINT "7 points to year " 3730 Jen 3730 Jen 3720 FOR Del 70 IS 4000 IF 522-[2] THEN 1440 3730 SF VII, 714 SP THEN 3760 4530 MITTING 4920 REN 44 3750 1121-1 4530 REN 44 ECORS THE 5 CARD HAND 3740 MEXT I 2770 IP 421 THEN 3810 4340 REN 44 4850 REN DIECK FOR R JACK OF MANY 4540 REN SUIT AN UP CAVO, EXCEPT ONLY

4270 Red

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ALSO IF HEL, SECURITY L'ST THEM APRO

THE SET OF THE IS SINGLE BEST HOME

3800 PETERN 5810 PER 44 HO SINGLE MIST HAND, 3820 PER SEARCH FOR 1017 CARDS

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Cribbage

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5000 FEB NOT TO 4 TO 4 TO 5000 THE SHADO THE S

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2000 Rate 44 a 2 cold 31 water
2000 Rate 44 a 2 cold 3

111 | 101/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 111/41 | 11

#140 MRCHIT - My card (s the 1) #The IF DIL(#140014, 41 THEM #2010 #150 IF DIL(#140014, 41 THEM #2010 #150 FRIMT TOLK #2011 #200 SOTD #4001 #210 MRCHM #220 MRCH #220 MRCHM #220 MRCH #230 MRCHM #220 MRCH #230 MRCHM #24 PLANEX DELLY

Cribbage 4250 M+1 4290 H-1 +270 MEH ## 4280 MEH ## 26ML ASSO PRINT'S TARREST AND 9540 MEH ** 6470 MELT 1 ADDO RETURN A300 IF N=0 THEN A330 A300 IF N=0 THEN A330 4500 MTA 1, 2, 3, 4, 5, 6, 6, 12, 3, 7, 8, 8, 6, 6, 1, 2, 3, 1, 4, 5, 2, 6, 2, 2, 3, 4, 5, 2, 6, 20 MTA 1, 2, 3, 4, 5, 2, 6, 3, 1, 2, 4, 5, 3, 4, 5, 1, 2, 4, 5, 3, 4, 5, 1, 2, 4, 5, 4, 5, 1, 2, 4, 5, 4, #510 DATA 1,2,3,4,5,0,0,1,2,7,5,4,0,0,1,2,3,1,4,5,0 1330 PRINT You ANNO PRINT "I ea dealing." 1380 Yel-8 6380 FOF Let 70 6 6-900 E-271-H ##10 FOR J=1 TO 4 4420 BEN 44 COMPLIFER'S WHAT 1450 M(L, 27+01K, 21 6440 REM ME PLAYER'S HAVE 4450 YEL-31+0H-31 ************** CPURPOSE TRANSPORTATION HOW MARY BUILDING & Enter a number from 1 to 5007 485 2 of Mearts A of State 5 of Hearts Your car? is the 4 or Speles By Eard is the 5 of Clubs F of Etube Now many counts? 3 II K of Cluse I have F spinse. 41 4 of Stanonda Di A of Stanonda I en Feellog-Your dispards? 2.1 The up card to the A of Senier 31 B of Hearte 9) 2 of Clubs 9) 3 of Planuers Wy card to the A of Hearts fum = 1, Foints = 0 46 F of Steamers You played the A of Specie Due - 2, Points -Bus - 7, Points - 0 New play? 6 CHARACTER CALACAGE *************** for played the 10 or spares Enter a number from 1 to 5000 per Ry car? In the 10 of Streemin Das -27, Falmin + 2 Flence out for Peal? 22 You alsowed the 6 of Stamonda Finance Cut for Family to Francisco In the o of Cities by earl in the 5 of Hearts I am Paniling. Bun "Si, Points = 2 My car" is the A of Haarta Poe . L. Poleta . O Your play? 3 Your cards aras 1) 3 of Clums 21 F of Clums 31 F of Clums Bes - s. Points - 0 You not I soomt for the last party 4) 4 of Hearta 5) 7 of Nomice es 3 of Esseponda by carre ere Tour discarde? 1.2 5 of Hearts & of Hearts The up cart to the 2 of Seeling F of Clubs Your stay? 2 You player the 7 of Syafes s paints

Cribbase

By card to the 7 of Discould Bur #14, Points # 2 Your play? 3 You placed the 4 of Species By part in the 4 of Clubs Your slas? & That totals some than 33

My card in the 2 of Clubs Bun -Si. Posnte = 2 Your play? 90 Ny card to the 6 or Clubs I see use eaint for the last card.

You played the 4 of Hearts tour slay? 60 You get one point for the last card.

Tear 31 817 4 Mready played excessiv player

You sat one point for the last card.

Your \$1+97 50

You get one maint for the lest cerd-Year slay? 60

true sat one second for the teat card-Year #0 #17 50

You get one paint for the last card. Your play? I You miscarred that carm 7 99 You get one point for the last carn. Your play? 99

You get one print for the last cert-Tear play? 5 Ten alswed the 3 of diamenta \$40 - 3, FOLIAG - 0 You get I maint for the last card-

New many points? 10 Not with that hand sot with that hadd

Hern with that hand Not with that hand

1) X pf Cluire 4) 4 of Discounts The up card to the 6 of Gamonde By Eart to the A of Hearts

for = 1, Pelme = 0 Ten slaved the K of Clubs for played the K of Clubs for mil, Formia = 0 By card is the 3 of Hearts But =16, Points = 0 Your sley? A THE played the 4 of Glamonda Sus -20, Puints = 0 The carry as the 9 pf Clubs Dat #29, Fointe * 0 That totals more than Si

massine for 1 points

7 of Diamonda

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2 have in prants

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2 of Clubs 5 of Hearts

You played the 30 of Speaker Nos #10, Points - 0 By card in the 10 of Siemonts Sum -20, Petrate = 2 Your share 3 You played the E of Clubs Sun *25, Paints * 0 You get I maint for the lest card

1 score first 10 of Glaservis

Erribbage

The crit cards are

Mussime for 1 sectors I have 27 points.

THE RESERVE AND ADDRESS OF THE PARTY OF THE Enior a number From 1 to 5007 am

Please cut for deal? 30 Four card in the 7 of Clubs By Card in the K of Dissonds

Your partie argu 1) 4 or Seates 2) 6 to Clubs 3) 5 s4 Clubs

4) D of Hearts 5) I of Hearts Year discarde? 2.3

The up card to the 4 of Dispension Pricero ta the 7 of States You played the 4 of Sendar

For Pipped the 5 of Syndau Sum -23, Frints - 0 By tard is the B or Cluss

See "Si, Salata = 2 Your sizy? 60 To care in the 7 of Septem fue = 7. Foints = I get one point for the last card.

You slaved the X of Clobs Bus - 3, Points - 0 You played the 2 of Hearts You get I point for the last care.

Year pine? is Your play? 2

1'11 give you I goint for last card

By card in the J of Wooden

the crib carms are

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How away points? a

I have 11 sector. You have 7 counts.

Your cards area

2) 5 of Clubs 3) 5 of Clubs 9) F of States

The un card in the 10 of System

You place and that card. You played the K of Glaverte Bue -10, Potate - o By care to the d of Spakes

Pois -25, Points - 0 You played the 3 of Diamonda

That totals ears then 31

Dukedom



You are one of several Dakes chosen by the Hull population, lead holdings, and emis reserves. Your seand ambition is to become powerful manual to ourse throw the High King

year at the time the commeter will danley the current population, lend and green totals, followed by a de-(HA) and begolsters (HL), respectively Each were was will have to make the following

You must decide how much grain to feed the removed 14 HL, of other wall and advantable feed one pensant. 13 will cause some hunger and decrease the peacents' fighting ability, and 12 or fewer well count

holdson back grass. If you feed the nessants rapre than 14 HL each (up to a mowners of 14) they will spenecosts the boom and fight better to you you the followthe suremer. A lone term memory keeps mark of the peasants' enquiletive statuge on fades slowly with time) and if you oreste sufficient but will the moderfeeding them, for majazce) they will depose you. You may enter the quartity of grain for the peasents in two sures. Numbers less than 100 are interrocted as beets. laters-per penant, while an entry of 100 or more renesents the total amount for the entire population The game cycles on an annual basis, and it is now

Enter the marries of heatness of local year were to bay The priors offered vary from about 4 hectolsters/ gros yorld. If you don't want to her any land, enter the You will then be given the option of selling your land the number of hectarm you want to sell, or easer 0 of

Land to Plant

Enter the number of because you wish to plant Each hection planted will require 2 hectobers of grain to seed at. Also, remember that each peasant can plays

and care for no more than 4 hectures. There is no There is another hunt on land sales. You connot fembleer and no observate ergs, so lead used more sell more than 4000 HL, worth to any one year That's years in a new becomes depleted. The serial record all the grate available to now you pasts

lasts the number of hectares you have of each of us classes from 100% tooks to 0%. In our goven year, hand used in any class moves I step closer to being totally depleted while exceed land moves two street closer to fellow (100%). The best quality land well always be planted first. The yorld for follow land to colestated each year at random (variances in the

weather) and ranges from 4 to 13 hestoliers of arres harvested for each horser photos! The negativestal obtained will be the average generated by the various

Special Operating Instructions

Dukedom

When a response is prompted by a """ a Y or N. may be given for Yes or No, respectively. A susple coturn will be assessed to be a "N" response When a response is prompted by a "*", a nonscurior miner is required. Any fraction well be transped from payer, and a sample return will be retur-

General Information

Russing totals are maintained by the computer All addrsors and subtractions are made at once and further transactions are broated by the excess balance No could is allowed (with one exception) One besises of lead equals above 2.5 scres. One boctofore of grass equals about 2.8 bushels.

It is favorably necessary to gamble occasionally to war Most earthly occurs of broom land you could alford at very low prices and sanghtus that yould will be but and there won't be a wor. If the numble fulls, you will spend the next ten years recovering (if you sur-

Food Allocation

Its overfeeding the peasants when possible, you can build up good will smerg the population. This may save your life as at can counterest proceeds No resentment to the future (during times of famous, for motagork Radar Lwark report element

Land Trading When you buy land you always receive 60%

cept il

quality. When you sell lead the machine sells your 60% land noted at's used no, then the 60% country, and finally she 100% if you sell that much You can never sell 40% (or poorer) quality land, no buyers will ac-

Cres Hazarda

Summerimes the rate pet rate the granary and rat no to 10% or so of your reserve green. Rate power culfield grass-field grass is easen by the seven year locents. They say half of all your crop up the years that they appear. The yield pricted in these years already unclades locus losses.

The Kwa's Peasant Levy

Occasionally rate will cat so much of the High King a grain that some of his workers starve to death When the Inspers, the King will require some ness. year from each of his Disker to replacements. You man supply them as requested or pay on alternate amount

Neighboring Dukes may attack you, hopeny to

obtain some land. This is more portable to yours of moor erroywild. It is no secret, and you can attack float if you wish. This menes that you and your peasants go over there some night and burn a few hets and nonerally make a greet dos If your attack is unpressive. the searby Doke may creded his war plans. This derends on the stre of your ottack force and the tree of les current defense force. You will certainly loss some penarets in such an attack If your fire attack fash, or if you do not short to

attack first, the war well occur. You had better here spene mercenance unce your every in doing the same A mercesary is worth about 6 presuent on fighting power Merceraries cost 40 HL eneb, and there is a maximum of 75 mercenaries available to you If your fightree power (mercentmen & peanants) eaconds would escent's, you wan, otherwise he went. The women accovers load from the loser or rates to the rare of the win. How much you fed the penuages has fall at won exportest and may occasionally make the difference between a was and a loss. The wrener also picks up some grass from the

captured land and is able to harvest the captured land allow with his own (at the same yield as his original lead) The lead sequered (or less) will recear in new year's land quality table evenly distributed between

the 100%, 80%, and 60% categories Since the mercetaires are horse monated and the

penants are on feet, the recomment attack floor Thus, a law regreter of mercenants will keen down your persont losses whether you was or lose. The recoverages many be mad after the basile. You can use grangery concrete and the actual grans carefund from

acquired land (the one exception to the no-credit rule). but not the substrated harvest (the precessors want their ray NOW) If you can't pay all the exercences, they will attack were remarks, billing them and collecters acres from their hum until fully pard Stoce the resounts doe't have reach gram left this late to the season, even a small default may not you a let of pointers. In-

odestally, if the merceaute, do turn on the peasages, they also rape every female in the Ducky, making next year's both rate very bush. (We arrived the fact that the wyenen deliver only a few months later-these are no come recentment to build up against you. Altick be your own mercentoes is quite heavily resented

Plaguet and Poxes

Dukedom

The plane will kill off a third of the norshiper. her m so doing it confers a 13-year immoraty on the common. Therefore the clarge cannot occur again for at least 13 years. The pox is less deadly, it fulls 10% or fewer peas

sets but confers no immurate lit can occur several WARN IN A 1996 Toyes and Expenses The High King charges a tax of 1/4 HL of green

for each HA of heed you possess (after war game or losses). You had better be able to now After the gram is harvested at resist be milled. The cools receive our call a maximum of 4000 HL durmy the near Additional buryest must be sent to the village radies at a charge of 10% of the amount malled The amount is relded to the castle overhead, which it fixed or 120 HL, per year

During the year, some natural deaths and somerone burths have occurred. Both are larged together as if they occur out ofter the fall harvest

The computer now prints out the results for the year and you stort over even with the peacest's food

Wagging the Game Through notate land enampowent, profitable realestate tradiar, summer a few wors, and lots of lock, you may be able to hadd up your Dueby. If instead you let it declare the High King may take a away from you and select a new menuter. An unemployed Deke one first employment as a mercenary in some-Prosperity branes its roke If you get see pros-

perous, the High King may become worned and begin to subsidire wors around you. These subsidies out larger as the rame progresses. If you should remeater, you may even only bent some Dake so hadle that you sawared to taking over

his entire Duchy. In addition to the more 400 HA, of sets (your war cassalter will be postere) and the remanage contents of his grangey. This poses a real threat to the owner, and the Hush Kone will been pleasure a direct attack prairie you. At the beminning of the followers were the King will demand twice the award, or you may refine. You will preen be rid of the double tax ouce at starts unless you refuse to year it. Keep has his comme for attacking you directly. The

rust of the year will go as usual except that there will The following year the King will attack just before electric time. You will have to here or many foresen memorantes as possible at 190 HL, each, acun to advance (the loser won't be in any position to pay) The program wall automaturally him as many merronames as you can afford at the time. There is no lumit

to the number of foreign mercenages you can here exas much Subruse power as 5 peacants. If your total fighting strength is greater than the Kang's, you was 250 to 300 mercenner and to be except, deserting on how many reasons you have Eather way, the game is over Good Luck?

Historical Walvar

processor—at the brief b

this came. Except for the great yields and planting requirements, the evene to almost pure fiction. There name from management Dakes ded and others fight cards other nor results have and sell land, the church was a power to be fessed. The metric system had not yet

A Dake would have as his lord not a King but a Court or Earl and would have made him Buccos or

Managers. Their various achies were the furbitual focus of the Kanadom (persons did not fight) Texes were paid not in grain but in periods of makings serwere (Ves. the National Guard was a metheral

Dukedom

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Dukedom INTO MEN. DESP. YELLD AND LOSS.

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Dukedom

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Eliza

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Historication.

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in best and the user participation (especially contents and constructions) in your regular and keep non-like and input to more many offer. Steen Elizak in a seen elementary for the content of the control of the content of the loca, that can lead some analyty instruction; profile You may cost your consecutation by typing in "SHLUT" (or "(or yet "HEMEL")

In order to do what it does, Elea must (1) get a string from the user and prepare it for further process use, (2) find the keywords to the capat string, (3) if a

How It Works



keyword is found, take the part of the string following the keyword and "translate" all the personal pronouns and verbs ("I" becomes "YOU", "ARE" becomes "AM", etc.); (4) finally, look up an appropriate reply based on the keyword which was found, print it and, if necessary, the "translated" string. ELIZA uses four types of program data to accomplish this:

(1) 36 keywords, such as "I AM", "WHY DONT YOU", and "COMPUTER". The keywords are in order of priority, so Eliza will key on "YOU ARE" before "YOU".

(2) 12 strings used for the translation or conjugation process. These are in pairs such that if one member of the pair is found, the other is substituted for it. Examples: "1", "YOU", "AM", "ARE", etc.

(3) 112 reply strings. The strings are arranged in groups corresponding to the keywords. There is no fixed number of different replies for each keyword. Replies ending in a "*" are to be followed by the translated string, while the strings ending in normal punctuation are to be printed alone.

(4) Numerical data to determine which replies to print for each keyword. For each keyword there is a pair of numbers signifying the start of reply strings and the number of reply strings. Thus the fifth pair of numbers, (10, 4), means that the replies for the fifth keyword ("I DONT") start with the tenth reply string and that there are four replies.

	Name Usage
R(X),S	S(X), N(X) See text.
15	Input string
KS	Keyword string
C\$	Translated or conjugated string
FS	Reply string, also used to save K5 in scanning for keyword
R\$,S\$	Strings used in conjugation process
PS	Previous input string
ZS	Sratch (used for simulating RESTORE NNNN statement)
NI	Number of keywords
N2	Number of conjugation strings
N3	Number of replies

Used to save K and L when scanning for keyword

X,L X,L Scratch. X is generally used for looping, while

L is used for scanning through strings.

Used for scanning for keyword string.

Detailed Explanation

Keyword number

K

S.T

Lines 10-160: Intialization. Arrays and strings are dimensioned. N1, N2, and N3, which represent the number of keywords, number of translation strings, and number of replies, respectively, are defined. Then the arrays are filled. S(keyword number) is the ordinal number of the start of the reply strings for a a given keyword, R(keyword number) is the actual reply to be used nest, and N(keyword number) is the last reply for

that keyword. Finally, an introduction is printed.

Lines 170-255: User input section. This part of the program gets a string from the user, places one space at the start of the string and two at the end (to make it easier to correctly locate keywords and to prevent subscripting out of bounds), throws out all the apostrophes (so DONT and DON'T are equivalent), and stops if the word SHUT is found in the input string (which it takes to mean SHUT UP). Eliza also checks for repetitive input by the user.

Lines 260-370: Keyword-finding section. Eliza scans the input string for keywords and saves the keyword of highest priority temporarily in S, T, and F\$. If no keyword is found, the keyword defaults to number 36, NOKEYFOUND (which causes Eliza to say something noncommital) and it skips the next section.

Lines 380-555: Translation or conjugation section. The part of the input string following the keyword is saved. Then pairs of translation strings, as described above, are read, and upon the occurrence of one of these strings, the other is substituted for it. When this is done Eliza makes sure there is only one leading space in the translated string.

Lines 560-640: Reply printing section. Using R(keyword number), S(keyword number), and N(keyword number), the correct reply is located. The pointer for the next reply is bumped and reset if it is too large. If the reply string ends in a "*" it is printed with the translated string, otherwise it is printed alone. The previously entered input string is saved to permit checking for repetitive input, and then Eliza goes back for more input.

Modifications

You can easily add, change, or delete any of the keywords, translation words, or replies. Remember, you will also have to change N1, N2, N3, and/or the numerical data. Just as a suggestion, if you decide to insert "ME" and "YOU" in the translation string list, put a nonprinting (control) character in YOU to prevent Eliza from substituting I→YOU→ME. This means that YOU will always be assumed to be the subject of a verb, never the object, but resolving that difficulty is a whole different problem.

What It All Means

We'll leave this to you. Although this program is an inferior imitation of the original, it does work. It is pretty far-fetched to believe that a psycholanalyst is nothing but a sentence-input-keyword-finder-conjugator-reply finder, but if you really think so, you can buy your computer a speech-recognition unit, a Computalker, and a green couch, and charge \$75 per hour. My computer, the doctor!

Fhiza

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Eliza

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1540 BATA "MAY AND YOU INTERESTED IN MEETINGS ON NOT 1 AND 1992 BOTA HOLES YOU PROPER IF I NEED NOTE 1870 BOLD HERE BO YOU FREN 1 CHAPTE

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1700 DATA - HOW DO YOU DO. . . PLEASE STATE YOUR PROMISE. LOUG DATA VOL DON'T BEEN GUITE SERTAIN. MEY THE LINEERTHEN TONE? THE DATA "CHAPT YOU BE MORE POSETIVE?"

2000 BATA "DON'T YOU KNEW?"

CAM DOLD THESE YOU COME SAVER BURN THE DATA THINKS YOU ASKED BLACK SUBSTICING SEPONST 1810 DATA "SWEET DON'T INTEREST ME.

Fliza DATO DOTO THEM YOU MOVING THAT JUST TO BO 2020 BATA "YOU ARE BEING A BIY NEGOTIVE." 2070 Date "sery NIT" 2040 BATH "MRE YOU SAME?" DOTO DATA JAMES WEE AON CONCESSED VICTAL MAR 2020 Date Heat SHILL YES CHE 2070 DATA "COM YOU THENK OF A SECURIC EXAMPLE" 2070 DALE THEREST 2100 Date "west age you thinking of?" 2110 BATA "REALLY, ALMOYE" YOU GEALLY THONK NOT 30 Base - Bit, Abn sed Mit draw April 2140 BATA IDD YOU BOURT YOUR 2150 SAIR IN WAST HAY?" 2140 SATA "MANT PRESENTANCE DO YOU DEET" DATE THESE DOES THE SINGLESTIVE SUSPENT TO YOUR TIED THE THEM COMMETTERS BO YOU GET! STITO DATA 'COLLO THEME REALLY BE SOME CONNECTION. 2200 BATA 7150 2210 DATA "YOU MORE QUITE POSTTIVE." DATE THE YOU DIRECT 2220 DATA "AND TO. 2240 DATA "I LEGERSTAND." 2250 DATA "I LECENTIFICA"." 2250 DATA "MET DO YOU BRING UP THE TOPIC OF PAIGNOS?" 2240 DATE "TO YOUR FRIENDS WORKS YOU? 2270 DATA THE PRINCE PICK DR WILLY 2270 DATA "ANE YOU BLUE YOU HAVE ANY FRIENDS? 2200 DATA 100 YOU INFORM THE YOUR PRICESS HOWITER YOU? 2316 DATA 'DC CONFUTICIS MONIY YOUT THE DATE THE YOU TALKING ABOUT ME IN POSTICULARY. 2340 DATA "MEN' DO YOU MINISTER COMPUTED HAVE TO BE WITH YOUR PROBLEM?" 2230 DATA "ASE YOU PRICHTINGS BY PROHINGS 2740 DATA "208"T YOU THINK COMPLETS CAN HELF FEOTUS" YATO BATA "MEAT IS IT ABOUT RECHINGS THAT MODELES YOU?" 23to gath "sent 18 IT ARREST BELTSHING THAT MORNING TOUT 23to gath "Gay, BO YOM HAVE ANY FOYDOLOGICAL PROBLEMS" 23to gath "sent LOCK That GLACERT TO YOU?" 2390 DATA "I HES. 2410 BATA "I'M NOT SUME I UNDERSTAND YOU FRALLY." THIS BATA "I'M NOT SUME I UNDERSTAND YOU FULLY 2430 DATA "CAN YOU ELASORATE OH THAT'S TARE BOTO "THAT IS DUTY INTERCOTING." mot go 2510 ASH --- REPLY PINGING BATA ---

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DATE SO. N. HS. 7, 90, 5, 73, 4, 49, 7, 104, 4

Lost & Forgotten Island

East & Forgotter Island was passed along to us by Kee Modestin of Trans Instruments and converted us Microsoft Eastle by Juffery Years. It first appeared to Creative Computing, March 1980.

Lost & Porgetten Island in a game of survival for one to those players. Unlike other sundar games, to survive requires ecoperation and your decrease-makus assent allowers.

In the scenario, you nied all the other players have been showerched and are now stranded on a remeter island as the Pacific Genan. Also on the island is a petace's coche of bursed treasure and, of course, you disriged ship. To ecoplicate matters, a typhoxic is

On each term, each player more make a decence as to whether to do repear work on the shap or to day for gold. The longer you remain on the what collect ang treasure, the higher the risk that the typhoon will catch up with your ably when you leave the risked in addition to your now assent the more convenience.

hydron you will cuccuaje either politics—manify injunes from including your tools or explosesing trade tools among players for either other looks or gold. Gersan tools will perform two facences although song a tool for the wiver, frechees will dimenso its abolate to explose man and acceptance. For exemple, using an ane to dep dalls a nod makes it less useful for exiting down trees for thep repeats. There are several ways an which the parse outerd, some of which are not at all pleasest. But with normatical, senable decisions, and cooperation among

persistence, sensible decessors, and cooperation among players, you can oll make a back to safety with enough gold so buy a fleet of Rolls Royers Good Lorks'



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Lost & Forgotten Island ### SOTO 77#





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Lost & Forgotten Island

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Lost & Forgotten Island

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Lost & Forgotten Island 2028 MERT 2

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Measure Combat was worken by Los J. Chapel and original appeared as Country Composing Polymany 1981.

Mosser Combit is a game in which you wonder around a fourt and encounter various monitors. Your objective is to sup at much treasure from each encounter as possible and of consus, not get killed in the process.

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Play of the Game

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There may be up to filton exchanted cardes in the forest These annally contain stems of stem value to treasure hunters, as you will see. (However, they tend to vanish if you make the wrong move, such as falling into a pit when you land on the castle square.)

Most of the time you will not be visiting inns and castles. You will be hacking your way through thick underbrush or trotting along forest paths in search of treasure. And you will find it, usually guarded by some sort of monster. Upon encountering one or more of these creatures you are given a choice of fighting them, running away, bribing them, or casting a spell on them.

To fight you must hit a "1"; then, when it asks you to, you enter however much of your combat strength you wish to use against the monster. If you choose to use strength equal to the monster's strength you then have a fifty-fifty chance of winning. The more strength you use the greater the odds are of winning, the less you use the smaller your odds of winning. Also affecting what you use to fight the monster is your treasure total. The more treasure you have the more strength you must use.

Sample Run

The first and third parts of the sample run give examples of fighting a monster or monsters. In the first case there are three cyclopses. Cyclopses have a combat strength of 20, which means that three of them have a total strength of 60. I used 121 of my combat strength to fight them, over twice the cyclopses' strength, which gave me over a 95% chance of winning. And, as can be seen in the example, I did beat him.

In the third part of the sample run I am fighting 19 goblins. Since goblins have a combat strength of 5, 19 have a combined strength of 95. I used only 60 combat points that time, giving me around a 30% chance of winning. And, as can be seen in the example, I did get myself killed.

Playing Strategy

If you do not wish to fight the monster you can always run. However, the higher the strength of the monster the less likely you will get away and the more likely that you will be forced to fight. Whether or not you do get away is based upon a random number and the strength of the monster. If you do get away you are randomly placed in an adjacent square and get to find out what is there. Once in a while, when you attempt to run, the monster catches you and kills you.

If you don't care to run or fight, you can try to bribe the monster. Few people like to do this since it means handing over some of your hard-earned treasure. Whether your bribe is accepted or not depends upon how much treasure the monster is guarding, his strength, and a random number. The greater the value of the treasure the monster has, the more you'll have to pay him if you don't care to fight. Usually if the monster doesn't care for your bribe you have to fight him. Sometimes, though, he just kills you anyway.

Finally, if you don't care for any of the previous choices, you may cast a spell. There are three types of spells: sleep, charms, and invisibility. Sleep spells tend to be the least effective and invisibility the most effective, with charms somewhere in the middle. Spells, no matter what kind they are, don't always work too well, sometimes not working at all, thus causing you to have to fight the monster.

In addition to the various monsters, there are other things you will occasionally run into; some are good and some bad, as you will see when you run the program. Everything is determined randomly and thus you can go back to a spot where you were previously and find something different there.

You have thirty days to hunt for treasure in the forest. Each little square you move through takes a tenth of a day to cross, meaning it takes an entire day to cross the entire displayed square. To move, you enter the direction you wish to go (N meaning North, which is upwards, S meaning South, E meaning East, which is to the right, and W meaning West). Then you enter the distance, each little square being one. For example, in the first part of the sample run, I enter S (south) for the direction and then 3 for the distance. This places me on top of the arrow, which is an inn, and thus I am shown in the square below the inn when the next map of the area is drawn. In moving from the inn I again go south, this time a distance of 7, which causes me to end up in the next large square.

When you leave the forest, intentionally or accidentally, you can obtain a listing of the number of monsters you've killed, bribed, and run from, plus the amount of treasure you have won so far. If you decide not to return to the forest or your thirty days are up, you are offered several choices: you may go to a new forest with the same strength and magic (the treasure total going back to zero); you may go to a new forest with new strength and magic; or you can stop playing the game. If you should wish to use the strength and magic left over from the game you just played, you can obtain a listing of these at the very end of the game and then write them down or store them, however you wish. Then, the next time you play the game, you just answer the initial question with a "Y" and then enter the various things you are asked for.

As of this writing, the record treasure total is 7562, set by the author. Most of the time the scores run between 1000 and 2000, with many lower and a few higher. If you get above 2,000 you're doing well.

The following is a description of each moments, giving its combat su ough and telling something about the take and myths surconsisting it.

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No Teeps was written by Sendy Crossists and unges appeared in Crossive Conjuming, August 1982

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(See Pagure 1). The center circle is known as the passels. The first plage; has four whap stones which me installed placed at the note of four adjacent arress of the star. The second player places from black stones at the ends of four adjacent arriss. Players take alternate moves, playing one stone per move.



Focuse I. Normal Mu-Tonere artur



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2 Move into the putols if it is empty

3 Move from the panals to any encompart ours The grate is wen when an opposess is so placed that at it impossible to many my page. Decisis the

that it is repossible to move any paces. Despite the apparent unipologies, the game to an degree of sublicty that requires thinking abraid uncertail moves in order to force the exponent ano as neglegable possible. One writes of the game or its uncertainty to create it on pupil, and, or abrood anywhere the pupil and the pupil and to a subject to the pupil were to the pupil and to the pupil and the pupil and would be too unipid and do not not consider the version also, success in the game to focus overcome. Let overcome Also, success the focus of the overcome and the pupil and the pupi

not program the conspect to play perfectly. Several atmixtural strategies are bank unto the program. The preparate will ship to congram one process forced was and accord certain fromed door minutes. If mose of the spealler arranges updgete, the program will solicit on a hearing move, in some cases good and in others had lie often words, in glays lide sood internal bank of the life words, in glays lide sood internal bank of the life words, in glays lide sood internal solicits on in order to keep the programs adoptable for most section, the later was consented to a listed arrangement.

success, the star was convented to a based arrangement of matched against (See Fajure 2). The product become the zero opens and the name points of the star because the nitrobered squares, one through zero. The persilled so the corpusal roles is an follows.

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Menthly Report to the Election

Contributions : \$48-200-59

Profesion of Speth s 325, 250,00

Pells show you are shead of Stove Hilli in Hebranta, You have 52 k of the vote

Polls show you are absed of Oteco H1111

ng or the 18 days will be nd rateing? 18

Presidential Campaign Spored commands sorrow in which study Teres tour companies there has 9 219, 220.00 Now much do you wish to swent? 17033.96

So you wish to second money in another state (weenso?? now Monthly Report to the Election Protractice of Scotts a new minimum

Opening the time to the control of t Pells show Stove Hilliams about of you Thirties a or the vote. Frees CHIED to begin next sorth? II

all you appent (wer mo)? ~ 2 Rouths before wheet on 369, 500, 50

What state so you wish to visit? Mains on have 36 encorrectated days off this sorth, and agree days to use wish to stop there? 30 Hose go days will be for for furnifications of the 30 days will be for for furnifications of the same days for compatibilities? 68

Spend opposite morey in which state? Nation word has \$ 273, 460.00 Here much do you wish to spend? 10000.00

be you wish to spend somes in encloser Smithly Report to the Election Pentraling of Booth . 263, ele. co Contributions : 45,400,50

Patte show fitness Hilliams sheed of upo Hispinsippl of the unte. Press Civital to begin rest morth? II

for and Stone Hilliam agree to a telev

or or Use details.

2 Bowths before election 202 400.00

What state do wer wish to visit? Calife

have 30 unscheduted days t thus month, many days to you wish to stee

same of the 26 dear will be fund rateine? 25 about the community? 38

Sport caseaign screet in stack State? P.C. Your caseaign tune has \$ 237,460.00 New much do yes, what to award? 50000.00 To you wish to weard money in emotiver

Hentbly Report to the Election

Personalize of Special . garrier up Ogracity Jones : any aff-55 Polis show Slove Hallaims should of you erth Caroline. Press CHIESO to begin rest contiff #

Syle September 2 Parily Services 120, 400.00

hat state to yes wish to visit? Calife have 30 ensolved/244 days

of the 26 dear will be raining? 15 days for operationing? 5 ish to wind another second? not

Your casesion fund has \$ 277,460,69

the much do won yigh to merel?

line much do you wish to sprend? 7099.66 to you wish to sprend money in another state (yes/no)? noil

browning of South a 270 400,00 Contributions : \$26,953-59

Petts show Stove Hilliams about of you him at 2 of the vete.

Frame CINTERS to benin rest workly #

277, 166, 96 HELFIL BEF

Commaton first has 2

Monthly Report to the Electron

election pronent, Andrew Hendsdge.



Star



Historical Background

fear Merchant tons wreten by Lived Johnson and Any Meschant is a fateristic trade emulation same. When the article first appeared is the August 1081 were of Combin Consessor. I was negliged to

not even the same "Traveller" proper srocks as a source for early names and base prices "Traveller" is a cole playing system set in the far fattire lits rules coars many facets of life on the 57th contary and one constructly being expended "Traveller" is available Stors hobby stores or from Gazze Deagners. Week shop, Nov. 1649. Bioconstaton, IL 61700

Early is the 26th century the SOXFTL drive was developed. This drive, when properly mutalled on a murn-him would easing a controlled warrang of space earblaur the spaceship to travel at fully taxes faster then light (20XFTL) Messive colonization of the nearby stars took place in the following two nemaries due to the crowded condument on rababitable planets of the solar system and the development of this drive By the god 29th englary, large celulars usace sittion (sterports) were constructed at the ten most for drokus and refugling starrings to well as massive carno storage espainisty. The construction of these starports was closely paralleled by a samplefication of married design. With the advest of the stargerts, it was no longer secessary for a stamble to load on a planet This elemented the need for stanospheric streamliana, as well as the large reaction surract reexaced to left the starship from the planetary surface. while it inhumbally increased the carro hold of carshops

The type of enego which will be available for purstone at any nartendar staggert is deligalt to product mann raput of the earnes did not originate at that stor

system, but were brought these by other morehant standard. Coordination of trade routes to committee cargo availability of a starport had never occurred due to the audicomfort nature of the star merchants and the sless consequenting between the star systems As trade developed between the starports, coelstarport was assigned a trade classification. Although the trude classification is dicless in determine which carnos mucho be avadable for perchase, a in extremely unclaim conductors the process of the cause. As political and aconcerns conditions change at a year system, the corrued trade classification may chance shalls

Game Description

The game has recently been modified from the enginal publication to include a two player option. When playing Size Marchaot, the player or players will find themselves in contrasted of a metallistic starting. Their goal is to not only make energing to by trading cappe to this yie because and as region the small investment for the feats of the translation, but to make more insense than the other player.

make more worsy than the other player. There are in officers in tupous where I rode or concared and furniyous, different types of cauges which can be used. The different types of cauges range from agreeditural proclace and me materials to industrially produced airam, made in a warpora and anothernly. The proc as which there cauges will be transfer and opportunity of the process of the process

gram at this sturpert will probably be very low.

The sturpert distances and disectness are all expressed in two disectness. This was done to settle pily generally. Command 7, Bustlan strategies, will display the reliance posturous of those surperest. This command is useful to the distance when

planning their trade content. Ship expension must be paid avery time it new samport is reached. If the players secrate becomes regular after paying those expenses, he transi sell enough earys to make it positive before he can fease the summer I for does not have records carno to do

this, the game will end for the player if two players are playing, the other player may accurate the game as a one player game if desired.

The expenses which must be good consist of a declare for fig. fig. expenses, and even salary. The dock

docking fits, field exposes, and erws inlay. The docking field all slays be \$5000 credits. The field exposes are directly proportional to the distance traveled from the last suspent. The cost of field per highyous in 100,000 credits. The cred's solary is based on as anwall salary of \$50,000 credits so the massum of steps time that has pround sent the crew was last paid. Stepture that has pround sent the crew was last paid. She time aprenous approximately \$00 years (a week) for each highyon traveled set approximately \$003 years in dayly fee and cropp transactions.





if he wants oo prechtee puncy treatmer. The operture is aloped if the player's assume does not beld enough revenue to make this payment. The price of paricy summers is the precess of the total value of the camp procurely mostle in the bold. If the casp schedul be stellow by ratiose, the player will be remarked for the liest accessed value of its energy. No resubstrainment, will take place if the player had not purchasted piezay summance.

The prices are a lightly technical cagnitustion.

The posters are a highly technical capatitation which have found a loophoid in the law of relatively. They utilize that loophoid to empty a starship of easy while it is in the warped space generated by the SOXFFL drive. With their shiding to shire the rate of turn, the presents are able to condervous with a searchip, bound a and take its easys, feet we insuffring message, and damagners all within a since inerval two.

should be a second of the seco

period in the time. Setting priors, the probability will necessary that the cere will give a trial for a higher necessary that the cere will give a trial for a higher staley. When a sintle occurs the crew presents there staley demands and the glayer in their dis a neissurceffler. The probability that the secure offer will be accepted deponds upon the resource offer will be a copied deponds upon the resource and the ordered of the number of outside offers that have been regional processity. One there will a register in a contract-offers, they will nevery only due compatibility of few. they will never only due compatibility of the contract of the contract of the contract settlement is described.

The issue on a playm'n ship will expire after two years of ship time. At this mine, the player will be saled to remov his lease of the has enough energy to do to it will cost (2000,000 credits) for another two years lease. If the player does not mines his lease, the pane will not fine this man of his final pane results will be played. The other player will be allowed to continue those and the lease arrange.

Star Merchant 10 RES THE STREET, STR

TO FEM B TO REM # STAR MERCHANT TO REM # 10 Miles

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170 FRIST 'enungh main that traval between any 2" 100 PRINT stargerto in presible mitheat 210 PRINT You are presently bravaling from Ripha! 220 PRINT "Centeur; to Spt. You are carrying no 220 PRINT "Gentmuri to Bot. You are carrying 250 PRINT "Genge." See PRINT: Pulmt "Freem mry her to continue."; 250 Ameled Waif Ame" Today 250

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Det PRINT "Frank any key to continue "; STO AN-LIMEYPILLY AN-"" THEN 370 201 C.S.PRINT "COMMENTS EVALUABLE BYP AS FOLLOWS" IPRINT 370 SOLUM 3420

AND POLAT | Fator a contra france before 15 ABO DWOLT TAKE BOD TO ebo rom Jel to b

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Star Merchant

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Star Merchant

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Star Merchant

Star Merchant Date State Sten state, 3450 BWIN -COM 3450 Duty , WAY,

3930 Date .Artes.es. 3960 DATA "Sement \$1.00 5950 DATA "Places gate" 2770 DATA "BUCY AFROY" real folio Tarm machinery' 2710 DATA "LIDNO" 4000 DATA TLIBUOF edio para Porces" 4000 Beth "Riestranics"

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4200 DATA 8 45, 6 65, 19 4270 BATA 2, 27, 7, 42, 1 4200 DATA -4, 43, 7 3, 23

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mu are presently traveling from Althe frees are key to continue #

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STAR HERCHOYS

4480 DATA 5,-1,5,-1,0,-2,70000,1 #500 Beth 0,0,-4,8,1,1,100000,1 #500 Beth 0,1,-3,3,2,1,75000,1 #530 Beth 1,0,-4,7,1,0,250000,1 #530 Beth 1,0,-2,7,0,0,150000,1 #530 Beth 1,0,-2,1,0,0,750000,1 #550 BARA -1, 2, -3, 2, 2, 0, 490900, 1 4560 2656 1,2,3,3,-4,-6,1000,2 4570 8656 3.0,-2,1,-5,-3,3090,3 effo Beffs 3, 0, -2, 1, -5, -3, 3000, 2 eggs part -2, 0, 7, 10, 0, 7000, 4 4800 parts 0, 0, 7, 7, -5, 5, 1509, 4 acco parts 2, 0, 4, -2, 3, 0, 1000, 6 acco parts 2, 0, 4, -2, 3, 0, 1000, 6 acco parts 0, 0, 1, 3, -9, 6, 300, 6 acco parts 2, 2, 3, -2, -1, -4, 2000, 2 acco parts 2, 2, 3, -2, -1, -4, 2000, 2 acco parts 2, 2, 3, -2, -1, -2, 2000, 2 acco parts 2, 2, 3, -2, -1, -2, 2000, 2 4a50 DATA -1, 2, a, 0, 0, 0, 500, 4 sas0 DATA -1, 1, 3, -2, 0, -2, 1000, 5 4470 MCM Price Date 4680 DATA .4, .5, .7, .0, .7, 1, 1, 1, 1, 2, 1, 3, 1, 5, 2, 7, 2, 3, 4 4670 DW

4250 8416 -.87, 10.26, 10 4300 889 Gerns Data

4330 BAYA 3,-2,2,-2,0,-4.20000.

4320 DATA G.1,4,-3,4,-2,1000000,1

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4360 Bath -2,4,-2,7,1,-1,109000,1 4370 Dath 2,0,-1,1,0,0,a60000,1 4390 Bath 1,0,-7,0,0,0,1000000,1 4390 Ash -2,2,-2,1,1,0,30000,1 4000 Bath 0,2,-2,0,0,1,700000,1

6422 Data -1.6.-5, 2.0.0, 30000, 2

6433 Bets -1, 3, -2, 0, 0, 0, 200000, 6462 Dets -4, 7, -6, 6, 5, 0, 10000, 2

#460 DATA -4,7,-8,8,5,0,10000,2 #460 DATA -2,2,-6,0,6,-4,150000,1 #470 DATA -2,7,-6,0,6,-4,150000,1

Commande musilable are as follows Enter a ranging relater between 5 You have arrived at Sal. Dorenton have been destudied to Crew asiacre

Recount malance 1,467,000 Enerty cares space 100 Ship time ,100 year Enter oceannoi? 1 Early carpo proce 1,467,000 Enter townshiff 2

List darge which pay be pirchered by darge Sely owner List starrorte Thank to new star (tet susilania communication) ge follows

Star Merchant Eastly Darrey Trace 239,732 Enter openensi s Enter partition of carso to be sold? 1 Appount infimos Account belonce 1,207,222 Capty carrie meson 120 208 Otto time 122 408 .196 unare Enter the lot number of carso that wou the lot runber of cargo that you Transaction completed Earth Cargo seace 190,590 Accessor had more 517, 22 Earty carps myson .226 years Eritar command? 3 Enter openend? 5 Enter the lot number of pares that you were to surphase? rememblion occupieted Percards Star Earty carso sease 252,000 Skir time .212 years Recognit Halance Evety Darwo Space Ship time or Star ter destination star number? 18 You have arrived at Labour Direct Approved belance Empty carpo epace Thir time Early races space -250, and Ship time -376 week Enter coreans? 5 Erder Sestination aten pusker? 28 You have arrived at Rishs Centauri. Expenses have been destigated as follows Sections for Tuel 452.534 Company balance P15,792 Efter powers? e Enter mentition of parse to be sold? I Latty corns tellarns STL 500 Early cargo space 319,722 Onter comment? 2 of cargo that you Enter partition of carso to be wold? 2 Transaction appointed Cores stored in partition &

Star Merchant

Enhan comments 6 Enter destination star maker? 2 Yeu have armived at Aleha Contauri. os on larger have sufficient funds to Vox beesn with 4 millson credits and now have 8 credits. Caron in the held is worth 125000 This represents a lices of 8253624,637 gredits per year.





Streets of the City was vector by Eccorch E. Marrier and Congragulational You have been named Trans-

portation Director of River City, Machigan River City to a control enty with a declaring population which is now at 185,000 persons. Bedget problems over the part decade have resolved as a severely deteriorated Proof to your being bried, the City Courranties

approved a ten-year transportation improvement plan that will now be your repropulsible to complete. In the Street Fond, the plan calls for reconstruction 44 major of more streets, called promotes, and 16 males of intensists. At the tame time, you have to strasfignation synamow the everall street conditions and traffic safety For the Trausst Authority, an agong has fleet needs to be aspended and modernized, and interimp must be cunosifed

Your success wil be measured in two ways. The flow as how well was promess each year as prepting the overall and. Second is your ability to maintain a morority vote of the City Constraints. Each influences

In the manalesses of the circulation, the terrol conditions are randomly set. This includes the first budgets atoms unlease and combiners the treffic-France Street Reconstruction

safety under fleet you and see, and trying nordermance. The souls that you must neltleve are so follows

Interests to Historiay Consugence Build 16 Males Redroce 60 Percent Troffic Sofety Index Bus Flort Age Fleet Dosonore Index Ou-Schodule Performance Index Reduce 60 Percent

Reconstruct 44 Males Reduce 60 Percept Reduce 60 Procent

Medisson Consequences. The costs are testally set at readon Each year, costs will recrease because of influence. An incoherence maintenance manner will Street Conditions. A street condition index is set doosly set, the higher the index, the worse the con-



street minings (total streets will be added as related to inflationary resource on development) and how well you bedget for street maintenance. Your maintenance costs are descripted by sirest micror upon condetains, labor approximant, and inflation Traffic Safety A traffic safety undex is also not run

don't army, the berker the sades the worse the traff he needest rate This index is adjusted each year according to changer in the street conditions and how well up most your maintenance and safety budget. The safety needs are determined by street maleage, the proffic safety rates, labor negotiarious, and reflation Age of Sus First. The use said ago of the floot are ran-

domly set and are secremented each west according to year sale and accusation of busin Sale is assessed on the base of the olden bases being sold first. Sale and Autority Refership is initially determined randomly

to a then alliered by decrease on the number of mates, the hours of service, the days of service, and but face. The performance measures of downtene and conschoolate performance (referred to as service delay) and strokes well also affect rederable

Slove Downton: This is previously by us index, the higher the sides, the greater the downtone. The index is adjusted according to the age of the fleet and kow well one most year magnerance budget. The mastenance pends are determined by the size and ago of the fleet, the level of service, labor accommon, and edistrati

Service Delay. The higher the survice delay mdex, the review your on-schedely performance. This under it determined by the soz of the fleet relative to the num-Sealers Operating needs are affected by the number of reason, hours and days of operation, labor negotiations, and inflation. You should not let the average number of huma per route drop below there.

service you will have for the year. Your decisions and ranges are as follows.

Falar 12, 17, or 24 Hours of Operation Per Day 12

Days of Operation In years 3 and 7, you will have the opnion of sent-

one authorsts to borrow money (in the form of boods) for street construction. In year 3, the bond later is \$1.5 methon, and so year 7, st to \$2.0 polition, each ner year You do not have to request the entire amount The Cay Commission will decade what size of a bond much as red to a soft of the category. The Commercian decauses will depend upon the size of the bond requested and your support assent the Communical members Once the swar to submitted to a vote, you will be taked to make certain pledges to the Couldren of Neighborboot Assertances. Making the pleders will propove the chance of process, however, if you ful to keen your elegans, you will be paraked severely

Property Taxes In this phase you will sak the City Constantion to

lesy me to our mak of property tax for street and trun at operation. The amount that is approved will depend mean your support of the Commission and the one of the leav engageted. The tax that is specually must then be dayled between streets and framet if you are too greedy, the charges that the Consumpace will arreque a lear-than adequate property tax moreans

The amount of the property tax base is set at the start of the savulation. Each year of changes according to exference street improvements, and bus indensited The theory is that with streets and more bus riders. recovery values will recrease Conversely with recover streets and fewer riders, property values will decrease



Once the tex leave

transfer accept from the operating accessed to the uptile accessed and were were. The percentage that you was shift will be happ according to the annount of broads you have count of your operating research, which in, cluded lands left over from the provious year, possible more, and to a low, a neutronized by appealed to defect out the country of the company of the country of the collected of the transferred to the contraction of the making and whelled meets, then adjusted according to mislage changes and ethicses. It is not a variable over which you have correct The convertion braight, eachieve of broads, in availably seet which you have correct The convertion to braight.

how much to spend from the Street Fund on marrie-

you stouch encounter that the needs rooms not the manners amounts sectionary to keep the manacement and sadily indicate approximately the same Reducing the indicate requires more than the manners appropriation.

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Labor Negotiations The final phase of decision making is labor negotrations for the next year. The concesses of the necessary

tions directly affects your operating and materialistic budget for streets and the Transet Authority. There will be between two and six rounds of regionatous, with the Union makens the first offer.

sommerce team owers with adjoined upon now whiting your are to harpean in good final his you needs emilienced, excident if you do not meach settlement, you mak a minch. The possibility of a miric adjoined, would be beginning not a sading postunous of the two parties and how make chech has thought if promition. A sprint and how make chech has thought if promition. A sprint expertisely affects your preformance for the years to which in occurs, you you selected on risk one lightly.

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Once you have completed the decision process, were well be more a companion of the effects of your

decrease the year against the past year and against the issuit pile. You will also be alsown a graphic daplay of the situate of year street constraints. Year goods performance will be evaluated and you will be sould lite strengths and weakness, of your performance Depending on year performance, you can get on less support and weaknesseen. You began the gazes with the monotoness support of all cleves Constituences.

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destroble, and the one requesting the most pathenal amment, in for you to instituted complete the transportation plan. This second way is to serve out the tenyours but not complete the glain, which results in a desceisors for you. The farth ending is then you will be asked to rough. This will happen if you find to keep the rappeted of it loots star Commissioners. And, it is cause.

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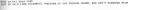
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and was senses by Stewart F. Frob and original course of action better It is the year 1991. You have crash landed on the

groon and have only 100 materies of oxygen and 230 ners of reary regarding. You are at Mare Serregation and observe the long, some shadows being ont by the durant reconstress across the harren landacage. The reskramen uniks in that you are in big trouble.

Servinal is an "adventure" type of grant With lone, skell, personeree, and a lattle be of look, at is pos-

sible to arrows. The action takes place on the surface of the moon where won must ensur the untration, explore the surpoundings, avoid potential busines, and gather needed resources It is a race against twee Many explorations are repaired before the total mission is revealed, and the respondent and life-the catering hazards are discovered

Once you succeed in surviving, there is then the challenge to older new surroyal suppences to movement the total elepsod tree. The community to some any NUMBER WINDOW.

PART, WEST, DR. and DOWN. Those commands may be sociled out or extend as a single letter-N, S, E, W. U. Other commands count of so scienc verb followed by a nogn. Examples of those commands are

> GET SLUMINATOR DEGE SNIPT

The set of community is relatively small, bence you may have to try several alternations to find the one that works. All consesseds may be abbreviated to the first three letters. To cost the program, you may Program Decision The recomm is relatively small as it was one maily written to fit or a contenter with the of memory The program is directed by a move matrix M There is one vector for each location P in the game. Table I lists the surrefleance of each vector in the ma-If the vactor alument (1-6) contains a value of

"It" then the store requested in that direction is secoled lifetie worser element contains a "99," then the carre is terminated The TS vector contains the textual description of

all of the version locations. As an example, the first three elements in the vector contain the description for location 1 to the M matrix Looking at the line 9001. the severals and eighth data stems correspond to M(1,7) which has a value of 1, and M(1,7) which has a

Table 2 lies the variables pood to the program Table 3 has each of the obsets used in the promary which are contamed in the 0 vector. Normally the vector element in D. for a green object, opposite es-

ther the P location of that stem, or a value of 59 mdensing that the player is carrying that item Lorentees I-18, and 35 permaily require owere All other locations are within the space station or the and or each. All other locations are within the space

MATERIA Changing the Complexity of the Game Normally, the program pensits the player to carry four steen. One way the difficulty can be us-

exessed as by permetting only three steam to be carried In this case, a longer successful time results, and the Siltowers statements must be undated 350 LET T2=275

730 IF T1 > 485 THEN 2960 240 IE T1 - 100 THEN 3840 2270 IF C > 2 THEN 2390 Conclusion

The program, unlike other Adventures, contains no random events. The escalasus in on determining cotreases move accepted, resident in minimum cares and resource are Each legation described corresponds to an actual moon invation taken from a National Geographic map of the moon

We such you many become bours of exploration As a benclmarks, the author's best survival once is 165 mention, with a force-teen carry hand. Here's to M(P I) -- Invalues to so to if direction is NORTH M(P2) in location to up to if direction is SOUTH M(PA) ... location to so to al direction is West. M(P 5) w location to up to if direction is 17P MIR 61- Josephon to us to if desertion is DOWN M(P 7)- poster to first post line at T5 vector M(P f) - pointer to lest print line in TS vector

Tubb 2 P - The current location W . The pressure location (P for the persons T1 - The current clapsed time.

Pl - The nearest of power remarking to the power

P2. The amount of power remeatants in the power Y - The number of youts to the control center

C The number of news bong carned STI - Sine owners or use FI - Flag Mateur shower F2 - Fing Shed open

\$16 . Plan Illumination on 17 - Flax Bomb descrivated P9 - Fing Oxygen required in station.

D(2) - Seplant. 0(3) - An onssen module. Diff. An illeminator

O(5) A robot 0(6) - A desettantor OCD - A nuclear bomb

Q(E) - A transporter uses 0(9) - Dilahem crystals SORt - A companier message COD - A power post

O(13) - A coded bades

O(14) - A power teck

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Traces not written by Richard B. Oathwith and first peaced in the March 1961 tense of Owelle Computing.

Tacker is a program which simulates the proliens from a long hast truck drown ideally, yee can make a good lovery hashing freely consist-o-cond without encoding the legal load lives If all pose will, you are shoy the speed hums and they not high freely boars sleep said still make the true schodule. One good true you will be able to earn well own \$5,000.

However, swen six ends green etc. into occasioners trends of both feet, said may benefy break even. But wenther, road construction or a flyst era and spike you believe absolute and end by kingsporter and the state of the state of the spike of change, directly fast, or carrying no overweight lead thereover, pushing too hard somes the road of a testific accident, and you will be fixed if you me cought breaksy the less.

Year Truck

You are driving in 18 wheel succes-trailer combination that can hold 50,000 pounds of cargo (10,000 pounds more than the legal laura). You are

psymmet of \$1,955 per month, or \$55 for each working day. This secount includes reserves for taxes and resurrance.

Your truck has a 200-gillen feel tank and gets 4.5 miles per gallon of dend fast Your mileage decreases when you drive finite or shower than 55 miles per hour. Your feel gauge is necessate to within 5 galloss and your speed-center at accurate to within 5 galmiles ted hour.

Accidents

It is extremely unlikely that you will be involved in a traffic readent to good weather if you corve at a

reasonable speed and get enough ent. The danger increases dramatically if you drive at no encourse rate of speed, fail to slow down in Sig et a blazard or exetuace driving after you have become fasqued. As exhausted, driver speeding through a mow nioriu is

esting for trouble.

There is always the danger of locus; time due to a flat use. This danger can be reduced by purchasing retreads or more expensive time before you start your time, and by proceptly replicing your space time after a

.

The speed fours is 55 miles per host unless otherwise posted. Generally, Smokey will allow some lower before palling you over, but the faster you go the more lidely you are to attract the natiseum. There are also a couple of places along the way where a male with the property of the property of the second partners with strict.

oles a couple of piaces along the way where a redar apect of rap may be in operation with strict enforcement.

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year lose your Interstate Commerce Commission driv-

Truck Steps

Every these or fose hours you will approach a truck step. Each step will take it least one hour while you at coffee, field and a space for if occosing. The peace of desent fact and area will vary suppredictably.

freeze fixed well average about \$1.00 per gallen.

Trock stops are also the only pisces where you can skep. You may choose when to skep, but, if you assume to skep during the day you will be disturbed by profile none.

Cureo

You can select one of these types of cargo to hard for each trap 1 U.S. Mail. This occuract will pay 5 0475 per named, or \$1,000 for a 40,000 pound load uson

pound, or 51,900 for a 40,000 pound roam upon delivery

2. Fraught Ectwarding This contrast pays 5.00 pound, or 2,000 for a load. However, there is a 10% penalty that is subtracted if yee are more than 12

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control

You can choose one of three creates the northern route, the middle rouse or the southern route Let's look at such route in detail

Northern Revie

This resite is the shortest but also the riskest. You will leave from Los Angeles on Interested 15 and drive through Lin Vegas and Denver. You then take Interests 40 through Nebraska, neethern Oho and Pennylvania. The rotal enterings is 2,710. You will pay a total of \$195 on tolls and later one obsaves in ords of rotating weighing stations. The danger of bad woother is high, and the speed from it vagorously enforced.

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How To Write An Adventure Game

by Greg Hassett

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Adventure have sorong up in the past year that are

specifically designed to fit in the smaller machines



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To play Adverters, you copy commands to the

AROUND ME I SEE POOLS OF WATER SMALL PLASTIC VIAL Later on to the game, the vial might come is handy for holding some band, etc., so in this situation

handy for holding some based, etc., so in this neuriting at might be some to "GET VIAL."

The one thing that I feel makes Adventioning so interesting in the close that are given in you explore. Knowns that close that me given in you explore.

their and rigaring our what they freen is quite miother in Adventure, class exist enzywhere They are in the roose discriptions, the object descriptions. Let's any you enter a room where there are using stallection, has no octologrames on the floor. This in itself is close M you think about it. Stallearnies could be ween off if But subserves would not be destroyed because most constants cannot easel them.

Then there are the type of class which have to be decoded As an example, take the class "MAGIC BREAK WORD BOTTLE BREAK" The class makes no sense at first glasse But then you could that if you read alternate words of the close, till defent you read alternate words of the close, till de-

that if you read alternate words of the olice, it deephers into "MAGIC WORD BIMEO" and "BREAK BOTTLE."

Maps words are very popular in Adventure. A

"BURK BOTTLE."

Maps words are very popular in Advestore. A commen use for these words in movement. They might be the only way to get to a completely different area of the Adventor. For grounds, in one Adventors the

mape word "BIMBO" will magently take you from being lost to a maze of cases to a small progle on the other side of an island. And there is no other way to get there. In this way, Adventure is like a good mystery used, with you being the out detective. On the other

hand, Adventure can be nerve-weaking, finelitation, and the incore of serious insomeral Adventure in a set of pazzle—you have to fit all the preen together to make a work.

I was first serroduced to Adventure a few years back on a Digital Engepriese Corporation (FDF-11/70) look as insteading thing to the game, but I

dele'i our is compatie Whee I purchased my Robin. On I Market 1703-70, 'I intereduisly set on to write an Administra The rossik was my fair on epital Administra, Journey to the Center of the Saint-Whita I found our I could self link. I worst not self-an-Administra The House of Sainte Center, Erroy Jano King Tach Tenh. Secrect's Gante, Puiga et a Administra, Euckstead for land, and Erichasted Infanti-Pari (it machine-linequise venues with additional Seaton).

If there's one thing that's more habit-forming than playing Adversaries, a'n writing them

Writing Adventures

What follows is an artempt to perkine the basic

structure of the way an Adventure can be written in Base.

The first step in writing a Base Adventure is coming up with the plot. This means answering the

country np with the plot. This means assistering the question:
"Where will the Adventure take place?"
"What well be the main purpose of the

Adventore?"
"In what kind of world in the repposedly happeneg?"
"What types of obsiscles will the player have to

"What types of obtancles will the player have to overcome?"
"How is the player going to get by these observable?" sind, you begin to drive the risp of the Adventors. The general form of the risp is shown in Figure 1. Once pice have about 40 rooms (rispe if you are not while incompany, you are needy to begin Riving in the DATA. The way 1.40 does not the form hard DATA "to every 1.40 does not the form hard DATA" "to ever description", rispan, wand where limit in the Bance statement matther, "room description" in the discription of the room, in is the

description" in the description of the room, in it the room north of it, gat the room onty of it, is in the room seeth of it, ten, if it rooms or district them there is not proposed to the composition of the composition of

are in the form.

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where Insett is the Basse inscrease number, "object"
is the decorption of the object, (room) is the room
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and Cosha (Other Advenues has transvers and quests) as the transver of proofs that the object is seen if, if (recen), as et to zero, then the object is countarily analyses for mission capit a surface for mission of "MOVE RADS" is extended, the straining recen for the "TRAP DOOR" is zone Later on, where the rary is moved, the trap door's room pass are to some names of the countaries, the countaries of the Advenues of the program RADA is of this DATA, to its error per Countaries that programs RADA is of this DATA, to its error per Countaries that programs RADA is of this DATA, to its error per Countaries that programs RADA is of this DATA, to its error per Countaries that the countaries are considered to the countaries of th

descriptors of room x Proylholds the room adjacent to room x in descence p Decreuss 1 - North, disction 2 = Birth, direction 3 - South, disctines 2 - Birth, direction 3 - South, discettion 4 - West, direction 5 - Up, and direction 6 - Delwa Alas, after slid of the core and object DATA has been read, the program proceeds to READ the vondelaty tables used surpsy NOS(s) and VBS(s) The vondelaty is stered as this manner berk DATA round.Dougl.govax3.

inc# DATA roun1,mun2,mun3, noun4, noun x ime#2 DATA verb1, verb2, verb3,

toute, most x
Ime#2 DATA verb1, verb2, verb3,
verb4, verba, verb3,
where local and local 2 are Blane statement name

bers, normi-morats are the woodsulary enteres to be enter also NOS(0) focuss), and world-works are the woodsulary enteres to be read into VBS(1) (works). When the player enters a new room, the short retente in Listing 1 in excented. This will pract the room descention, its corrects, and all nouselle direc-

pens leading out Parang

to become memorary to explain the parong nation.

This is the rousine which will take the player's upon, there is no a verbinate or application of the country of the country which will be the player's upon, the country of the count

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Each verb has its own special "verb routine"

which is celled by a large ON GOTO inscrinest execisted skirt the parting routine. For each vish, there are usually only a few sooms which would make sense. For switznee, for the "EAT" routine, "CHAIR" would have no meaning, in all probability, only the



any other sects was entered, the measure "DON'T BE RIDICULOUS" would be output, and country would return to the repat/pursue counter. If the count was "POOD," then the rooms fift in the Cool would be set to zero the food in successively over it has been quited and the measure "MMM, GOOD" would be output. Courton would then be maintered back to the input/pursue; returne



Figure 1: A syncol person of an Advanture rasp. Note that so get ions the various rasp for the discount descent, you must get the major rasp. To get the major rasp, you must cet the just them for a give. To sai the just, you most open the creekpe found in the dusty peaks.

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Lating I—Bare Kiring of less the shiply room "rounne works. Note that all energy must be set up as described on the sest. The OBLOD army holds the room 8 of object x. Note line 1129 where the salar is compared with the curren room surphus. Each object is hand it this facilities.

Adventures in Videoland

by David Lubar



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make no clause of game organishy here.

The framework handles all the procedures that are comman to most subventures it is, in session, a gole, keeping mack of a player's moves and the loos too of objects, and handling common constraints such

not be styled, and "DROP" By plugging in a couple backets fill of variables, may adventurous resim could be defined. The task of containing a specific adventure name scenned less monatorious (and next year, when they invent the neutrino disc, I'll be able to write a neutrino adventure in record time).

Frame Three: Onward to Olympus, empathy for hermits, and getting down to the hard stuff.

I hit the mansion on the hill early one Monday morning, ready to wrestle with technology. The boss flipped a handful of switches, powering up computer, disc player, television, and stereo, while dimming lights throughout the neighborhood. After showing me how to use the interface and disc player, the boss left for the office, and I was on my own. Being alone in someone else's house is a rather strange experience, which I will not dwell on here. It should suffice to say that I trod gently so as not to risk breaking the carpet.

The first and easiest task was watching the movie. This not only helped pass the time, but gave me a glimpse of scenes that could be used in the adventure. Rollercoaster, for those of you who missed the movie, concerns an extortionist who plants bombs on rollercoaster tracks, merry-go-rounds, and other fun places. The movie occupies five sides of three discs. The side used for the adventure contains good scenes of carnival rides and explosions, making it highly suitable for an action adventure.

Having checked out the scenery, I started getting acquainted with the interface. The software included a short machine-language driver that could be called from Basic. Instructions went from computer to interface via the USR command. As the video-disc obeyed my commands, I felt like Archimedes lunging from the tub. This was POWER. I was the demigod of the disc, making it fulfill my every whim. It all seemed too easy. I could search for frames, play sequences, switch from computer to video display, do almost anything except make it roll over and beg.

As is the way in life, there was rain on this parade. Since the precipitation occurred later that day, I won't go into it now. With spirits still undampened, I started mapping the adventure, trying to create a scenario that could best exploit the available video. Thanks to the framework, the rooms and objects were plugged in fairly quickly. While the game wouldn't have the magnitude of Crowther and Wood's colossal cave, it would have enough locations to allow the player to get lost once or twice before catching on.

Frame Four: The problem with adventures, an emergency guide to dairy substitutes, and the coming of the rain.

The problem with the average adventure is that it is linear, frustrating, and ultimately boring. The first one is fun, the second entertaining, but after that the novelty wears thin. I realized I could either put a lot of hard work behind my feelings on the subject and pro-

duce a different sort of adventure, or rely on the novelty of the video to save the day. Following the sage advice of Occam's Razor and other convenient laws of laziness, I took the easy way out and stuck with the standard adventure format.

This sort of work definitely called for vast quantities of coffee, which led to the following discovery. If you are ever out of milk and sugar, but have peppermint stick ice cream in the freezer, try some in the coffee. It's not bad.

Having mapped the adventure, I was ready to add some video. As a start, I decided to display a still frame or sequence for each location. I wrote a short parser that would take strings of command codes and send them to the interface. The routine can be found starting at line 40000 in the main program. (If the code at 40000 is replaced with a RETURN, the game can be played without a videodisc, though lack of visuals makes it as exciting as watching salt dissolve.)

Once the visuals were defined, I tried a test run. After giving instructions, the game displayed a scene of the carnival midway. So far, so good. I went east. The disc player whirred. The wrong picture came up. A few tests produced the following realization: the computer is a lot faster than the disc player. If you send commands to search for frame 12345, you might get frame 135. To compensate for this, I added delays to the video parser. Now that the disk had time to digest the whole command, another problem appeared. Commands are not buffered by the interface; they are executed immediately. Sinking into the mind of the disc player, the process goes something like this: Hey, I gotta search for frame 20123. O.K., I'm on my way. Half-way there. Getting closer. Almost there. Hey, a PLAY command. Here goes. Thus Mr. Disc doesn't care if the search is finished. The PLAY command takes priority, giving whatever scene was under the beam at the moment. Enter more delay loops. End result: no matter how quickly the main code executes, there are inevitable delays associated with calling frames from the videodisc.

Frame Five: Meat on the bones, shooting ducks, and an end to modularity.

With the rooms mapped out and the video stuffed in, the next task was to add all those conditional actions that turn an adventure from a Sunday drive into a real game. In the real world, most problems have more than one solution. In an ideal adventure, any intelligent input should be greeted with an intelligent response. Any attempt to introduce such reality into a program would probably lead to either insanity or an OUT OF MEMORY error. Keeping this in mind, I first added routines to check for any commands that were required for the player to win. Any such input

This information, stored in an array called RS, serves not only to determine where a person would end up, but also for printing visible exits.

There are two other string arrays associated with rooms. The RMS array contains a brief description of each room. RDS contains a complete description. By separating them, it is possible to print a full description the first time a person enters a room, and a short description if he returns. (I ended up printing the full description each time since most weren't that long.)

Objects are also held in an array, OB\$, and another array, OB, contains the location of each object. OB holds either a room number, a zero if the person has the object, or a negative number if the object is out of play. This is the same sort of technique used in most Basic adventures.

One further concept was the use of variables for what I consider "furniture." This would cover objects that can't be taken but can be examined. Furniture is contained in the array FR\$, its description is in FD\$, and FL contains it location. If the value of FL is zero, that furniture can occur in any location. For example, if all rooms have walls, FR\$ would be WALL, FD\$ might be "IT IS MADE OF STONE AND CONTAINS NO CRACKS OR MARKINGS" and FL would be 0. Since the routines for LOOK and TAKE check through both objects and furniture, these two sets of arrays must have the same value, even if the higher numbers of one set aren't used.

The rest is reasonably straightforward. Once rooms and objects have been taken care of, routines need only be added to handle special situations. Note that the LOOK routine checks to see whether an object is either in the player's possession or in the same room as he. This avoids the frustration encountered when a player wants to examine something and is told he isn't carrying it. The general framework, with dummy room and object definitions, is given in Listing 2 for those who might want to construct their own adventures.

The Roller Coaster Game Explained

by David H. Ahl

"Over my dead body you will!" This was the response I got from David Lubar when I suggested running a map of the Rollercoaster game with the information as to what is found in each spot.

His reasoning was that the game could be played by someone whether they had a videodisc player or not. The only difference is that a person with a videodisc player and interface would be able to see the motion sequences where other players would merely have them described by the computer program.

My reasoning was that this is the first

computer/videodisc game ever published and that if it is going to be part of the entertainment wave of the future, we ought to share as much information about it as possible.

My reasoning prevailed and, thus, you are reading this article. Mr. Lubar was last heard saying, "Mutter, mutter, you're the publisher."

Flash Back

Ever since I saw an experimental videodisc player from Phillips/MCA in 1975 and published three articles about video discs in March of 1976, I have been enthusiastic about the medium. More recently, I have gotten very excited about the possibilities for computer programs which take advantage of the videodisc. Many educators and people involved in industrial training are working in similar directions. However, my thoughts were more in the area of home entertainment.

In particular, I imagined an adventure-type game based on the movie Jaws. I haven't quite worked out the entire scenario, however, I envision a scene where a shark is about to attack and is swimming toward you with his jaws wide open when the screen goes blank and you are asked for a decision. Make the right decision, and the shark would back off, probably in reverse slow motion and you would see it recede into the ocean. Make the wrong decision and, of course, you get eaten and lose the game. Or, you might invoke magic which would transform you to an entirely different time and place. If you did this, you might or might not lose some of the objects you have gained and you might be posed with an entirely different yet of problems based on your new location.

I envisioned using portions of the soundtrack with only the computer output visible on the screen. I also saw opportunities for the player to put in his own search coordinates (a frame number) not knowing, of course, what was there beforehand. Based on what he finds in a particular location, he must continue the game from that point. Thus, I envisioned a very openended type of game as opposed to the completely structured adventures and other games that exist today.

Can it all be done? I think so. We are, of course, starting in a much more structured way. However, I believe that this game will give you some idea of what the capabilities are of marrying the computer with the videodisc.

How the Game Works

After showing the appropriate title graphics, the player is told that a madman has planted a bomb on a rollercoaster. At this point a 10-second scene of the

caused the program to jump to the appropriate subroutine. Had all this been planned out beforehand, these subroutines would be neatly organized into meaningful groups. Since I was creating as I went along, the structure of the program suffered somewhat.

To add a bit of spice to the game, I tossed in some more video scenes to go along with special actions. If the player tries his hand at the shooting gallery, he sees metal ducks being flattened. If he tampers with a certain box, he is rewarded with a view of the rollercoaster being blown off the tracks.

By the end of the second day, the game was approaching finished form. All correct moves were recognized, and some incorrect moves produced special responses. So much for the easy part.

Frame Six: Error checks, custom changes, and the true meaning of déjà vu.

While the programmer in the role of game creator must try to anticipate various inputs, the programmer in the role of debugger has to create all possible situations. This can be a rather tedious process. Seeing the same scenes over and over is rather akin to drowning. Eventually, self-preservation overcame perfectionism, and I decided that all the bugs were eliminated. Though this is never true, the thought can be comforting. Leaving the message "Play me" on the diskette sleeve, I packed it in for the day.

I was eager to learn the boss's reaction to the program. "Not bad," he told me the next day, "though I do have a few changes to suggest."

I looked at the three pages of notes, feeling some empathy for the ancient mariner, Sisyphus, and other bearers of long sentences. A close inspection reavealed that most of the changes would not be difficult. "I'll take a shot at it," I told him, trying not to give signs of relief.

Back at the Fortress, I plugged in the changes and started another round of error checks. By the end of the afternoon, I could close my eyes and see rollercoasters. But the program was finished. In an odd way, the project had almost been fun.

Frame Seven: Conclusions, the future of video, and the meaning of it all.

Naturally, there is a post natal pleasure associated with the completion of any programming task. After the glow dims, some questions remain. Was the project worth doing? Did it accomplish the desired functions? The main goal was to try an experiment with a fairly new technology. Here I feel partial failure. The new medium was used in an old way. Beyond the video scenes, the program is just another adventure. It was as if I had been given Vulcan's forge and

used it to produce a souped-up Ford Pinto. Despite the racing stripes and whitewalls, it's still a compact car. But the exercise has convinced me of the potential power of the video-computer connection. The fusion of these two devices will produce some spectacular results. Rather than add to existing concepts, people will create applications that open new areas, merging computers and video rather than just tacking picture to program. The rollercoaster ride has just begun.

An Adventure Framework

There are two key parts to the framework; the input routine and the partial parser. Rather than use an INPUT statement, each character is obtained with GET. This has several advantages. First, each character can be checked on entry. Second, commas won't cause an EXTRA IGNORED error message. Finally, there is plenty of time between each character to process the preceding one. With INPUT, the program receives the whole phrase at once and any processing has to be done after the user has hit return. To separate a two-word phrase, the program would have to search through the input string for a space, adding to the delay time. On the other hand the GET routine can immediately identify a space and define anything prior to it as the first word of input. The rest of the routine just traps illegal characters and checks for controls such as the back arrow or return. For back arrows, the routine erases characters as the cursor crosses them.

The input routine accepts one or two words, but no more. In its present form, it accepts only letters. It could be easily modified to recognize other characters if required. Upon returning from the input routine, there is a horrendous ON A GOSUB command with twenty-six parameters for the variable A. This causes the program to branch to different lines depending on the first letter of the command. While such a solution might be considered inelegant, it cuts down the delay considerably. Once the branch has been made, the program has just a few possible keywords for which to check.

Next, I took the basic concepts encountered in an adventure (moving, picking up, and dropping objects, examining objects, and looking at a location), and designed the framework in such a way that objects and rooms could be changed with little effort. For movement, I limited the program to four directions; adding up and down would be easy if required later. The rooms were given two identifiers, a number from 1 to 26 and the corresponding letter of the alphabet. For each room, there is a string containing the rooms that can be reached by going north, east, south, and west. Disallowed directions are marked by a null character.

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activisted by going to a new place in the game-playing area. Other video sequences are activated by picking up as object to giving some other command. For example, the command "Wase Uniform" truggers a mill frame of the groundskeeper as a nucleone. Still other video sequences are inggered as part of

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David H. Ahl is the editor-in-chief and founder of Creative Computing magazine.

